

Diary Number: \_\_\_\_\_ Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Division IV: Surface Treatments and Pavements**

**Title: Asphaltic Concrete 409, 415, 416 or 417**

Mix Design Number:
AC Type (409, 415, 416 or 417):
Lot Number:
Lane Number:
Lift Number:
Beginning Station:
Ending Station:

Attribute Numbers	Compliance	Narrative	References
0		A pre-paving meeting with all key stakeholders was held to review all aspects of the paving operation (can be combined with other pre-activity).	Construction Manual Chapter 4: Surface Treatments And Pavements AC - 4
1		The required inspection and testing standards are available to technicians, and the technicians have the approved mix design.	Construction Manual 105.11 Standard Specifications 409-2.04 Standard Specifications 415-4 Standard Specifications 416-4 Standard Specifications 417-4
2		Certificate of Analysis of mineral admixture conforming to the requirements of Standard Specifications 106.05 is submitted to the Engineer.	Standard Specifications 409-2.03 Standard Specifications 415-3.03 Standard Specifications 416-3.02 Standard Specifications 417-3.02
3		Certificates of Compliance for the asphalt cement conforming to the requirements of Standard Specifications 106.05 is submitted.	Standard Specifications 1005-1
4		The contractor shall schedule its paving operations to minimize exposed longitudinal edges. The contractor shall schedule its paving operations in such a manner to eliminate exposed longitudinal edges over weekends or holidays.	Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
5		The existing asphaltic concrete surface is milled to the proper trench depth of plus or minus 0.01 feet.	Standard Specifications 202-3.03 (C)

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6		There shall never be an unprotected edge drops of two or more inches.	AASHTO Roadside Design Guide 9.5.2
7		The existing surface to be paved shall be cleaned of all objectionable material. If the surface is milled, the exposed surface on which the material is to be placed shall be uniform and free of loose material. Any exposed base material shall be compacted to the extent required by the Engineer.	Standard Specifications 202-3.03 (C) Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
8		The contractor shall remove shoulder build-up material from pull boxes, valve and meter boxes, vaults, and any other roadway-related items located within the shoulder.  Item Number 2030112	Special Provisions 203
9		For 415, 416 and 417 only: The cold existing asphaltic concrete shall be trimmed to a vertical face by cutting the existing asphaltic concrete back for its full depth.	Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
10		The base or subgrade upon which asphaltic concrete is to be placed shall be prepared and maintained in a firm condition (compacted) until asphaltic concrete is placed. It shall not be frozen or excessively wet.	Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
11		For Warm Mix Asphalt (WMA), a test section must be performed as a separate Lot with the tonnage of 1,000 tons to 2,000 tons.	Materials Practice and Procedure Directives 23 2.3.4
12		For Warm Mix Asphalt (WMA), acceptance testing shall be performed at the same frequency and with the same requirements in the specifications for asphaltic concrete.	Materials Practice and Procedure Directives 23 5.1
13		For 409 only: Asphaltic concrete shall be placed only when the temperature of the surface on which the asphaltic concrete is to be placed is at least 65 degrees F.	Standard Specifications 409-3.01
14		For 415 only: Regardless of courses thickness, the surface and ambient temperatures shall be at least 65 degrees F, and rising. The placement shall be stopped when the ambient temperature is at or below 70 degrees F and falling.	Standard Specifications 415-7.05
15		For 416 and 417 only: For courses 1 1/2 Inches or Less in Nominal Thickness, the temperature of the surface on which the asphaltic concrete is to be placed is at least 65 degrees F and the ambient temperature at the beginning of placement is at least 65 degrees F and rising. The placement shall be stopped when the ambient temperature is at or below 70 degrees F and falling.	Standard Specifications 416-7.05 Standard Specifications 417-7.05
16		For 415, 416 and 417 only: A light coat of bituminous material (tack coat) shall be applied as directed to edges or vertical surfaces against which asphaltic concrete is to be placed.	Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
17		For 415, 416 and 417: Is Bituminous Tack Coat Quantlist completed?	Construction Bulletin 07-01
18		For 409 only: Regardless of courses thickness, asphaltic concrete immediately behind the laydown machine shall be a minimum of 275 degrees F.	Special Previsions 409-3.01

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19		For 409, 416 and 417 only: For 409 courses regardless of thickness or 416 and 417 courses of 1 1/2 Inches or Less in thickness, asphaltic concrete immediately behind the laydown machine shall be a minimum of 275 degrees F.	Special Previsions 409-3.01 Special Previsions 416-7.05 Special Previsions 417-7.05
20		Pavers shall be equipped with a screed for the full width being paved (heated if necessary), and automatic screed controls with sensors for either or both sides of the paver, capable of sensing grade from an outside reference line, sensing the transverse slope of the screed, and providing the automatic signals which operate the screed to maintain the desired grade and transverse slope.	Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
21		All wheels and tires of compactors shall be wetted with water, or if necessary soapy water, or a release agent in order to prevent the sticking of asphaltic concrete. All other equipment surfaces shall be treated when necessary with an NTPEP evaluated release agent. Diesel fuel shall not be used as release agent.	Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
22		For 409, 416 and 417 only: All edges shall be rolled with a pneumatic tired compactor, or other methods approved by the Engineer, while the mixture is still hot.	Standard Specifications 409-3.02 Standard Specifications 416-7.05 Standard Specifications 417-7.05
23		For 409 only: Initial and intermediate compaction shall be completed before the temperature of the asphaltic concrete falls below 200 degrees F.	Standard Specifications 409-3.02
24		For 416 and 417 courses 1-1/2 Inches or Less in Thickness: Initial and intermediate compaction shall be completed before the temperature of the asphaltic concrete falls below 200 degrees F.	Standard Specifications 416-7.05 Standard Specifications 417-7.05
25		For 416 and 417 only: On courses 1-1/2 inches or less, do steel wheel compactors weigh at least 8 tons?	Standard Specifications 416-7.05 Standard Specifications 417-7.05
26		For 416 and 417 only: On courses 1-1/2 inches or less, pneumatic tired compactors shall be equipped with skirt - type devices mounted around the tires so that the temperature of the tires will be maintained during the compaction process.	Standard Specifications 416-7.05 Standard Specifications 417-7.05
27		For 409 courses regardless of thickness and for 416 and 417 courses 1-1/2 inches or less, is the rolling sequence and number of coverages specified in table in section 409-3.02, 416-7.05 A.(3) or 417-7.05 A.(3) being followed?	Standard Specifications 409-3.02 Standard Specifications 416-7.05 Standard Specifications 417-7.05
28		For 416 and 417 only: On courses 1-1/2 inches or less, one pneumatic tired roller shall be furnished for each 300 tons of asphaltic concrete per hour.	Standard Specifications 416-7.05 Standard Specifications 417-7.05
29		Steel wheel compactors shall not be used in the vibratory mode in any of the following conditions: - 409, 416 and 417 courses 1 inches or less thick - 409 courses regardless of thickness when the temperature of the asphaltic concrete falls below 180 degrees F - 416 and 417 courses 1-1/2 inches or less in thickness when the temperature of the asphaltic concrete falls below 180 degrees F	Standard Specifications 409-3.02 Standard Specifications 416-7.05 Standard Specifications 417-7.05

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30		For 409 only: Asphaltic concrete immediately behind the laydown machine shall be in a thoroughly mixed, free-flowing, and workable condition, be free of lumps and crusts.	Standard Specification 409-3.01
31		For 415, 416, and 417 only: The handling of asphaltic concrete shall at all times be such as to minimize segregation. Any asphaltic concrete which displays segregation shall be removed and replaced.	Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
32		Longitudinal joints are located within one foot of center of a lane or within one foot of the centerline.	Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
33		Longitudinal joints of each course shall be staggered a minimum of one foot with relation to the longitudinal joint of any immediate underlying course.	Standard Specifications 409-3.01 Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
34		For 415, 416, and 417 only: When surfacing courses are placed on 10 foot or wider shoulders which are to receive rumble strips, the contractor shall place any longitudinal joints approximately one foot away from the travel lane side of the rumble strip.	Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
35		For 415, 416, and 417 only: Joints shall be formed by a slope shoe or hot-lapped, and shall result in an even, uniform surface.	Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
36		The surface of any lift of asphaltic concrete other than the final lift, shall be tested and shall not vary by more than 1/4 inch from the lower edge of a ten-foot straightedge when it is placed in the longitudinal direction (including across transverse joints), and when it is placed in the transverse direction across longitudinal joints.	Standard Specifications 409-3.01 Standard Specifications 415-7.06 Standard Specifications 416-7.06 Standard Specifications 417-7.06
37		Asphalt concrete edge shall match typical plan section (Typically 6:1).	Plans Detail Sheets
38		The final surface smoothness is within 1/8 inch when tested with a 10 foot straightedge in a longitudinal direction.	Standard Specifications 409-3.01 Standard Specifications 415-7.06 Standard Specifications 416-7.06 Standard Specifications 417-7.06
39		The inspector has documented the asphaltic concrete temperature and compaction operation (Rolling pattern and number of coverages).	Construction Manual 105.11 Construction Manual 409-3.02 Construction Manual 416-7.05 Construction Manual 417-7.05
40		For 415, 416 and 417 only: Does the spread lot information include the project number, date and period of time that each spread lot was placed, the spread lot number, beginning and ending station, the plans thickness, and tons placed in each lot?	Standard Specifications 415-7.03 Standard Specifications 416-7.03 Standard Specifications 417-7.03

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41		For 415, 416 and 417 only: Spread lot forms (one half shift of production) shall be signed by the contractor and given to the Engineer at the end of each Shift.	Standard Specifications 415-7.03 Standard Specifications 416-7.03 Standard Specifications 417-7.03
42		For 415, 416 and 417 only: Is the spread data used to control placement?	Standard Specifications 415-7.03 Special provision 415-7.03 Standard Specifications 416-7.03 Special provision 416-7.03 Standard Specifications 417-7.03 Special provision 417-7.03
43		Core holes are repaired/filled and thoroughly compacted within 48 hours.	Standard Specifications 415-6 Standard Specifications 416-6 Standard Specifications 417-6
44		Quantlist Minimum Frequency is being followed, one per week.	Construction Bulletin 07-01